

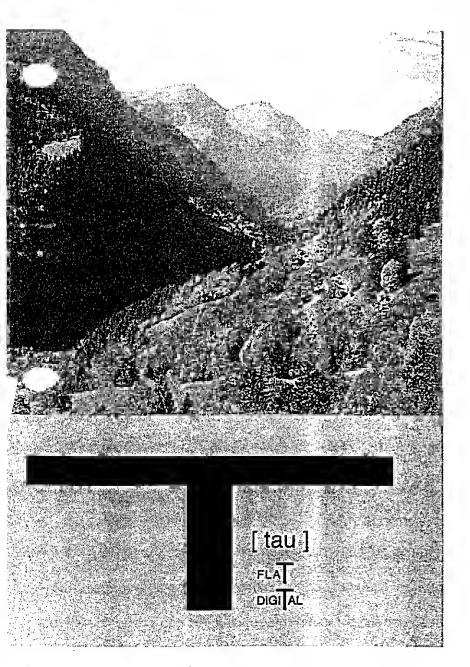
# **Panasonic**

# Projection Television Operating Instructions

Model No.

**TC-** 47P500 Series

**TX-** 47P500 Series



This is a combined Operating Instruction manual for all the above series of models. Please read these instructions before operating your set and retain them for future reference.

# Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Projection television set.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the Model Number and Serial Number of your set in the space provided on the rear cover of these Instructions.

Visit our Panasonic Web Site http://www.panasonic.co.jp/global/

### Important Information

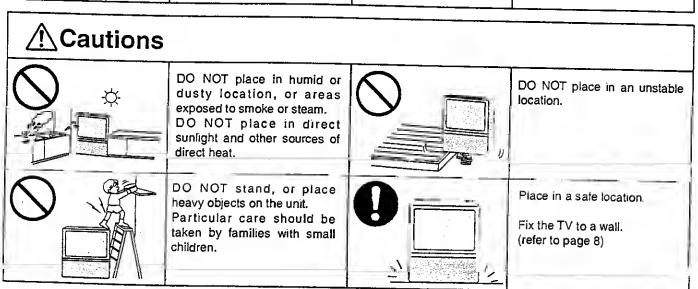
- (1) The long time (max. 2 hours) use of TV game on the set is not recommended since the signal from TV game may be the cause of damage on picture projection tubes on the set.
- (2) Do not allow a still picture to be displayed for an extended period, as this can cause a permanent afterimage to remain on the Projection TV screen.
  - Examples of still pictures include logos, video games, computer images, teletext and images displayed in 16:9 mode.
  - If still picture cannot be avoided, reduce the brightness and contrast levels of the picture to minimize any damage that might occur.
- (3) In order to minimize any damage to the projection tubes, this set uses the PICTURE SHIFT function (Refer to page 35) to change (shift) the entire picture approximately 2 mm every 15 minutes.

# Table of contents

Warnings and Cautions	
Before Operating Inis Set	
now to use This Manual	
Quick Reference Guide for your TV Set	••••
Securing the casters	
Connecting the Aerial Cable to the RF In Terminal	•••
Safety Precaution	i
Connecting the Plug to the Wall Outlet	8
How to Turn the Power On.	9
Battery Installation	9
Battery Installation	9
Battery cautions	S
Location of Controls	10
Controls and Terminals on the TV	10
Connections	11
How to connect the "AV1, 2, 3 or 4" Input Terminals	. 11
now to connect the DVD Input Terminals	40
now to connect the AV Monitor Output Terminals to other aguinment	40
Connecting Headphones	40
deneral Operation	411
On-Screen menu displey from Hemote Control	40
Convergence Adjustment	40
convergence Adjustment mode	10
Convergence Adjustment for RED, RI LIF and GREEN	40
Convergence2 Adjustment for RED and BLUF	~~
running Channels	
Outly System Selection (Different region use different systems)	
Colour System Selection (Different region use differing systems)	~~
Charite Selection	~4
Channel Allocation	24
Adjoinanc Tune	
(Channel Select and Regional System must already be set; Refer to pages 21)	
Manual Tune	26
(Channel Select and Regional System must already be set; Refer to pages 21)	
Fine Tuning	2/
How to Cancel the Fine Tuning	28
Programme Number Skip	28
Programme Number Skip	
Picture Adjustment	29
Picture Adjustment	30
Sound Adjustment	32
Setup Adjustment	34
OFF TIMER	34
FLICKER REDUCTION	34
CH COLOUR SET	34
CH COLOUR SET	35
VCR/GAME	35
CHILD LOCK	35
PICTURE SHIFT	35
LANGUAGE	35
Wull Screen	20
Mula PIP	
Onathet search	7
OHOUGE	7
received (No indication for TC-47P500)	0
Advanced Remoto Control Operation	4
Stereo Bilinghal Sound Selection	_
VGR / LD / DVD Control	1
A. Capitaginouting	2
Specifications	

# Warnings and Cautions

⚠Warnings	3	
B-C	Unplug the power cord in the event of any malfunction (screen goes blank, no sound, odd sounds, smoke or unusual odors coming from the unit). Unplug the power cord if foreign matter or water falls into the unit, or if the unit is dropped or the cabinet is damaged.	DO NOT use this unit near water. (Near a bath tub, etc.)
	DO NOT place any of the following on the unit: Flower vases, flower pots, cups, small metal objects, or cosmetics containers, chemicals or water.	DO NOT use if the power cord or power plug is damaged, or if the plug does not fit tightly into the socket.
	DO NOT insert foreign objects (metal or easily flammable objects).	DO NOT use at a voltage other than indicated
	TAKE CARE NOT to damage the power cord.	DO NOT remove the rear cover as live parts and High Voltage components are accessible when the rear cover is removed.
	DO NOT touch the aerial cable and this unit when there is lightning.	DO NOT touch the power plug if your hands are wet.
<b>↑</b> Cautions		



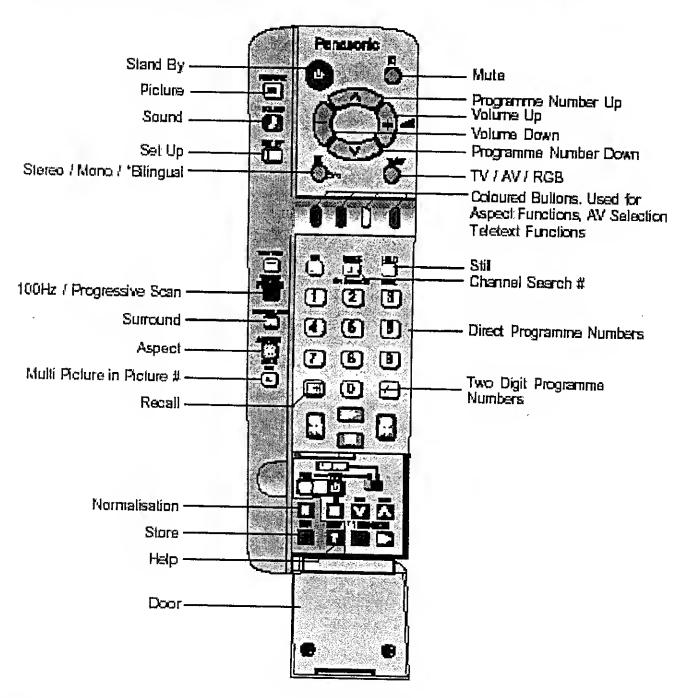
### **!**∖Cautions When inserting batteries, Do not mix new and old ensure that the polarities batteries. Use only the (positive and negative) are specified batteries. Failure to correctly aligned. Insert as follow this precaution may shown on remote control. If result in leakage of battery inserted incorrectly, battery fluid. Fire, injury, or damage to fluid may leak, and fire, injury, surrounding components may or damage to surrounding also result. components may result. Adequate ventilation is Turn the power "Off" before essential to prevent failure of connecting other electrical electrical components, we equipment. recommend that a gap of at least 10 cm (←→) is left all around this unit even when it is placed inside a cabinet or between shelves. Before cleaning, unplug the DO NOT joint the unit. power plug from the socket. Unplug the power plug from Ask your sales outlet to Install the socket if you are not going the aerial. to use the unit for an extended period.

#### Cleaning - To ensure continued excellent performance by this product, periodic cleaning is recommended The unit contains many plastic Dust will accumulate on the parts. For this reason DO NOT picture screen. Please wipe use benzine, thinner or other with the supplied soft cloth chemicals to clean the unit. from time to time. If you use a chemically treated cloth, please be careful to follow the instructions that come with the DO NOT bring into contact Remove dirt and soiling by with insecticide or other wiping with a light cloth. volatile substances. Even if the unit is heavily DO NOT allow the unit to soiled, do not apply cleaner come into contact for extended directly to the unit. Soak a periods with rubber or vinyl cloth in a solution of neutral products. cleanser thinned with water. Then wring out the cloth, wipe the unit clean, and finish by wiping with a dry cloth. Do not use any type of cleansers on the picture screen.

# **Before Operating This Set**

# How to Use This Manual

Check the Model Number of your TV set; the Model Number is shown on the rear cover name plate on the set. Use the table on the opposite page to confirm which features your particular Model is equipped with. This will help you to know which sections of the manual apply to your set.



### Note:

 Mainly the remote control for instructions;

is used as an example in the Operating

# Quick Reference Guide for your TV Set

Please check the model number of your set.

This Manual applies to several Models and there are slight differences among them.

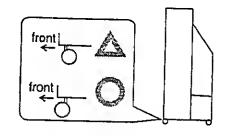
Please check the table below to see what your TV is equipped with before you begin using these Operating Instructions. Instructions are given for all functions, please disregard these which do  $r \rightarrow apply$  to your TV.

	_		<del></del>	·-·
	, ,	odel nber	Though The South	
	China			1
	Hong Kong	*		
Destination	Southeast Asia		*	1
Sestil digit	Australia		*	
	NZ		*	ļ
	Middle East			
	English	*	*	
Multi Language	Chinese	*	*	
	Arabic			•
Power	AC 110-240 V 50 / 60 Hz			
Source	AC 220-240 V 50 / 60 Hz	*	*	

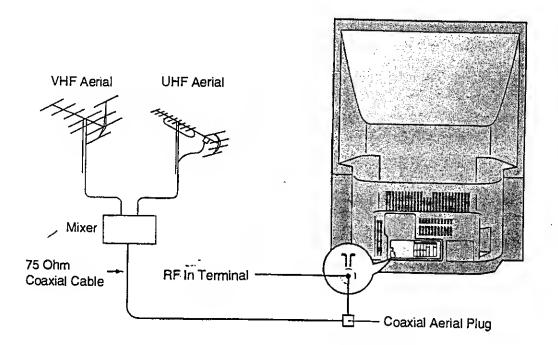
\*: Function available

# Securing the casters

To prevent the set from tipping forward, turn the two casters on the front of the TV so they face forward, as shown in the picture.



# Connecting the Aerial Cable to the RF In Terminal



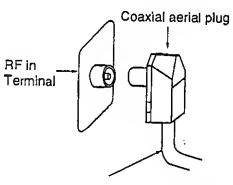
To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.

If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and your set.

Your local Television Service Centre or Dealer may be able to assist you in obtaining the correct Aerial system for your particular area and accessories required.

Any matters regarding Aerial installation, ungrading of

Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.



75 Ohm Coaxial Cable

### **Safety Precaution**

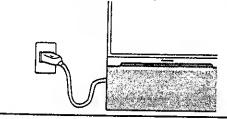
Please take safety precautions to prevent the unit form falling over.

The unit may fall over during earthquakes, or if someone stands on or shakes the TV.

rif

Fixing to a wall
Use a strong rope or a chain to fasten
the TV firmly to a strong support such
as a wall or a pillar.

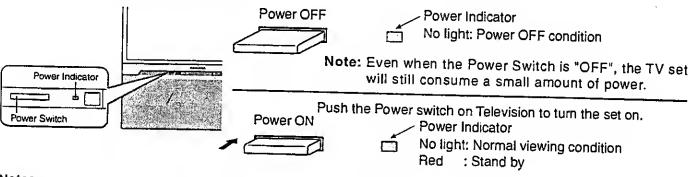
# Connecting the Plug to the Wall Outlet



#### Note:

Main plug types vary between countries. The main plug shown at left may therefore not be the type fitted to your set.

# How to Turn the Power On



#### Notes:

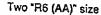
- When In the Stand-by condition (Refer to page 15), it is also possible to turn the TV set on by pressing any of the "Direct Programme Number Selection buttons" (0~9) or "Programme Number Up or Down buttons" on the TV set or on the Remote Control.
- If the Wall Outlet is switched OFF or the Main Plug is unplugged, when the TV set is again turned ON (by either connecting the Main Plug to the Wall Outlet or switching the Wall Outlet ON), it will have returned to the original state.

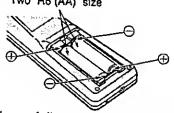
### **Battery Installation**

- 1 Open the cover. Apply slight downward pressure
  - while pulling towards the bottom.
- 2 Batteries: Use two "R6 (AA)" size batteries.

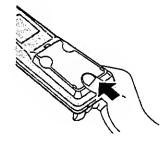
Insert the batteries ensuring the correct polarities.

This is identifiable by the "+" and "-" symbols on the batteries and inside the battery compartment.





3 Replace the cover.



Do not use rechargeable (Ni-Cd) batteries.

They are different in shape and performance and may fail to ensure correct operation.

# Battery cautions

The incorrect use of batteries can cause electrolyte leakage which will corrode the Remote Control or cause the batteries to burst.



Replace both batteries at the same time.



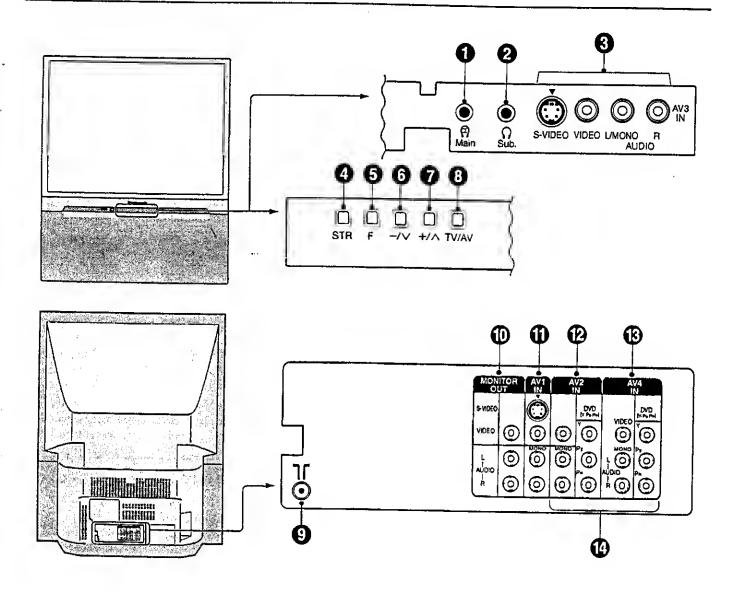
Don't mix diffrent battery types (alkaline with carbon zinc, etc.)



Don't Recharge.

# **Location of Controls**

# Controls and Terminals on the TV

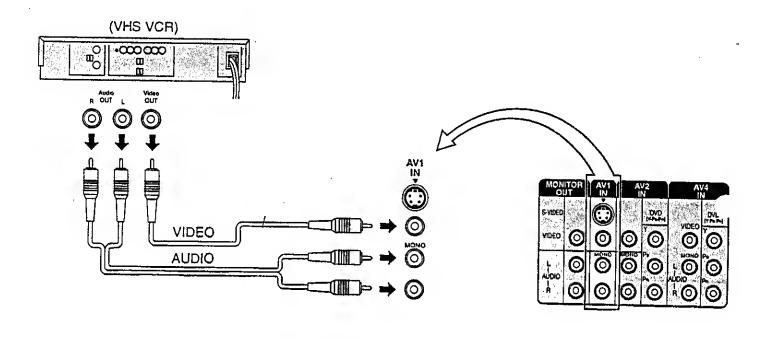


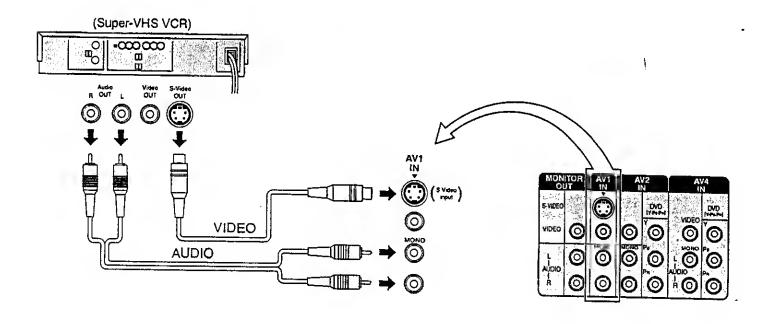
Item No.	Function	Refer to Page	Item No.	Function	Refer to Page
0	Main Headphones Jack	13	8	TV/AV Selection	14
8	Sub Headphones Jack	13	9	Aerial Terminal (RF In Terminal)	8
0	AV3 Input Terminals	11	•	Monitor Output Terminals	12
4	STR	14	0	AV1 Input Terminals	11
6	Function	14	<b>P</b>	AV2 Input Terminals	11
0	Volume Down (-) / Programme Number Down (y)	14	$\odot$	AV4 Input Terminals	11
0	Volume Up (+) / Programme Number Up (A)	14	1	DVD ( Y. Ps. Pr.) input	12

# Connections

# How to connect the "AV1, 2, 3 or 4" Input Terminals

### Connect VCRs and other peripheral equipment

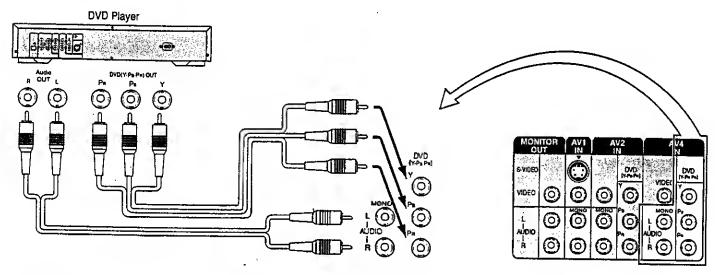




### Notes:

- When an S-Video cable is connected to the S-Video terminal, the Video input will be automatically switched off AV mode.
- When a Monaural VCR is used, connect the Monaural Audio cable to the Audio "L" (Left) terminal.
- Select the desired AV input position by pressing the TV/AV button. (Refer to page 15)
- Input 3 is located on the front of the unit.
- The AV2 and AV4 audio input terminals serve as the audio input terminal for both the Video input and the DVD input.

# How to connect the DVD Input Terminals

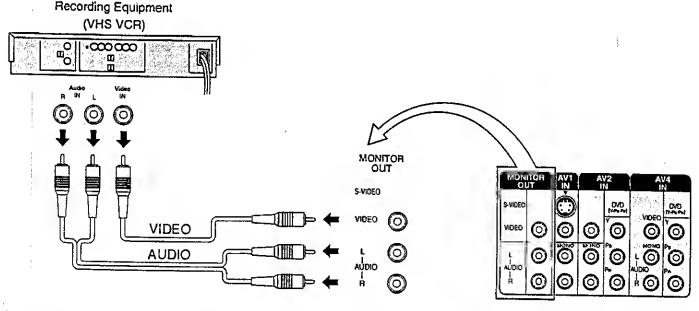


#### lotes:

- The AV4 audio signal is common for both AV4 and DVD input signal terminals.
- The DVD signal input terminal takes priority over the AV4 video signal input terminal.
- Similar connection are available at the COMPONENT VIDEO input 2 terminal.

# How to connect the AV Monitor Output Terminals to other equipment

The "Monitor Out" Terminals output the same signals as main picture on the TV screen and sound from the speaker at that time, e.g. TV programmes or signals from AV1, AV2, AV3 or AV4 input.

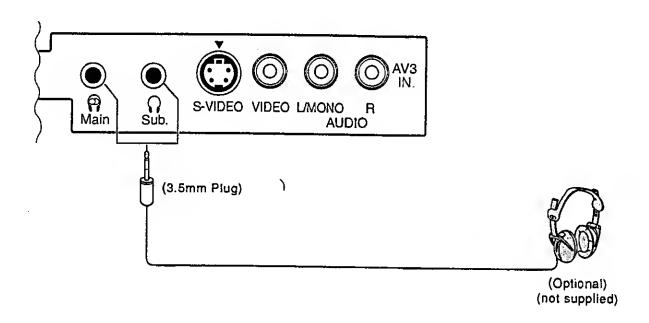


### Notes:

- Never connect the same video recorder with both the VIDEO IN and MONITOR OUT terminals on this TV set, as this could cause incorrect operation.
- The monitor output emits the main picture normal video and audio signals.
- Teletext display on screen will not be output at the MONITOR OUT terminals.
- Even if the television is in picture-in-picture condition, MONITOR OUT terminals output the same signals as main
  picture on the screen and sound from speakers. Sub picture including strobe, still, channel search, etc. will not be
  output at the MONITOR OUT terminals.
- The DVD signal (Y, PB, PR) is not output at the MONITOR out terminals.

# **Connecting Headphones**

Connect headphones as follows.



You can listen to sound from each of the headphones plugs as shown below.

Screen condition		Speaker	Main	Sub	Monitor	
		Sound	Headphones	Headphones	Output	
Single picture/	Α	A	A	A	A	
Teletext		(Stereo)	(Stereo)	(Mono)	(Stereo)	
Picture in Picture	A B	A (Stereo)	A (Stereo)	B (Mono)	A (Stereo)	
Picture in Picture/	ВА	B	B	A	B	
CHANGE		(Stereo)	(Stereo)	(Mono)	(Stereo)	

### Main Headphones plug:

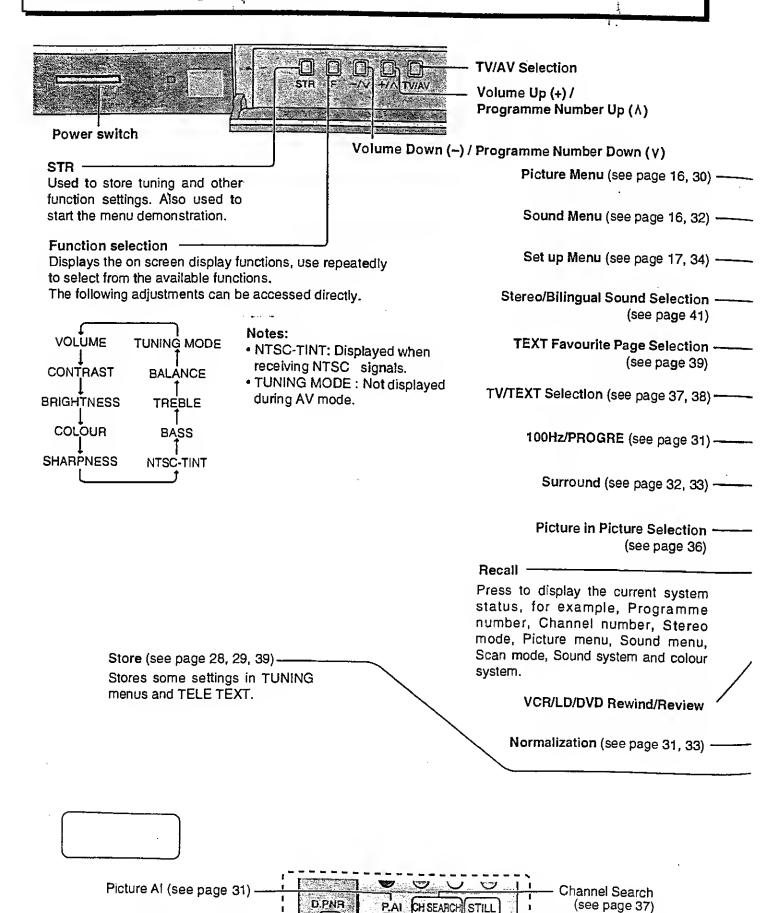
When a Main Headphones plug is inserted into the Headphones socket, all speakers will be automatically disconnected; only the Main Headphones will function.

Use Volume Up "+" or Down "-" button to control volume level.

Sub Headphones plug:

For the sub Headphones volume control, refer to page 32.

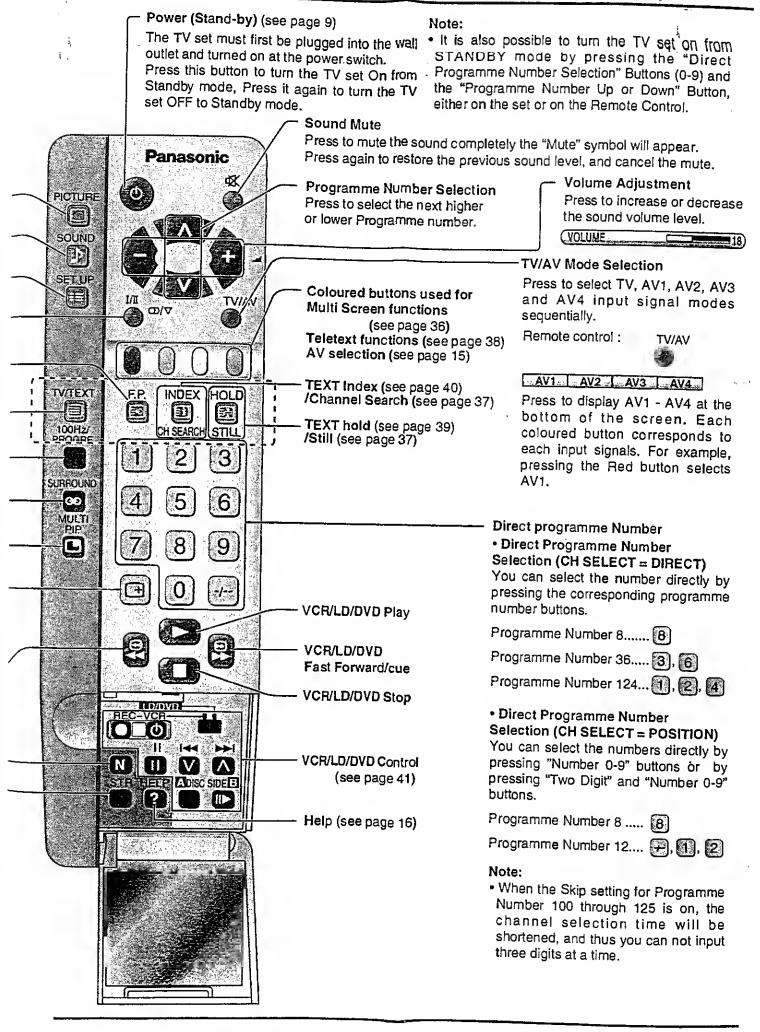
# **General Operation**



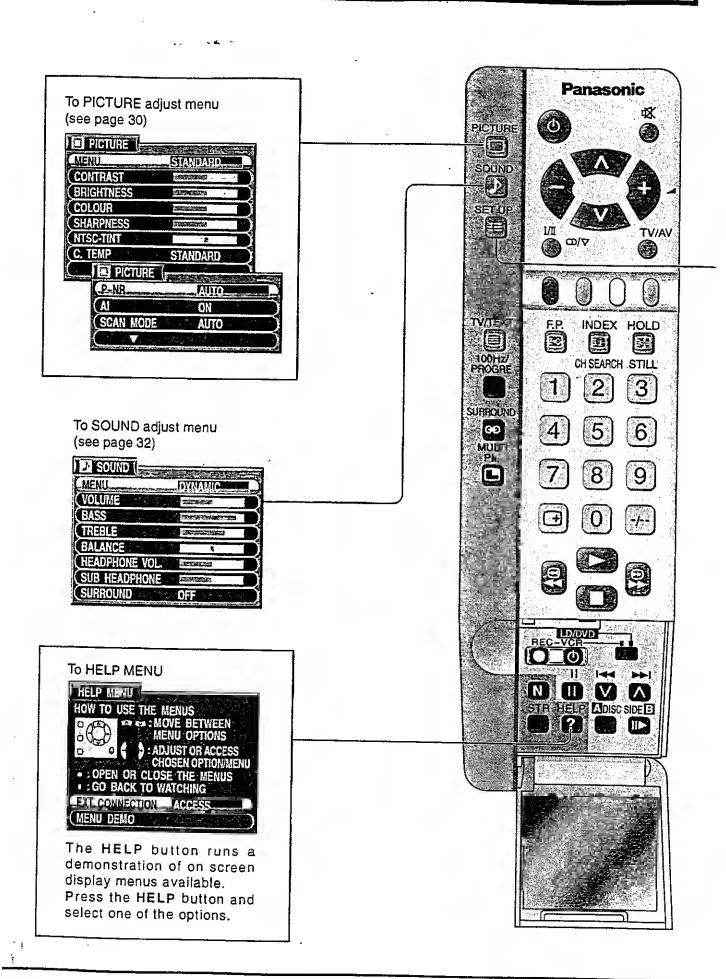
(see page 37)

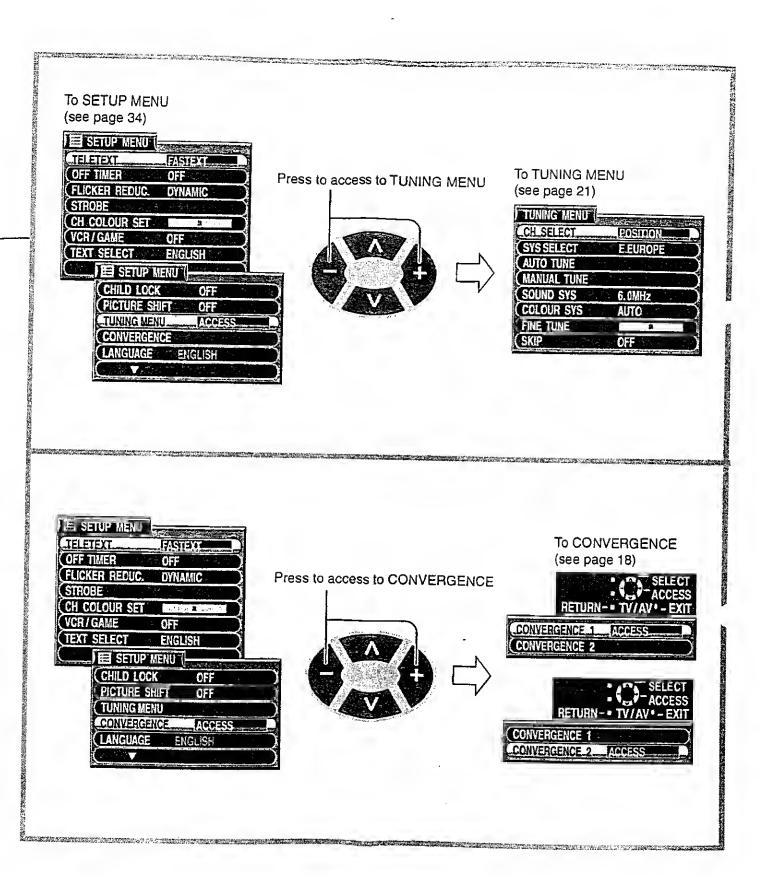
Still (see page 37)

Picture Noise Reduction (see page 31)



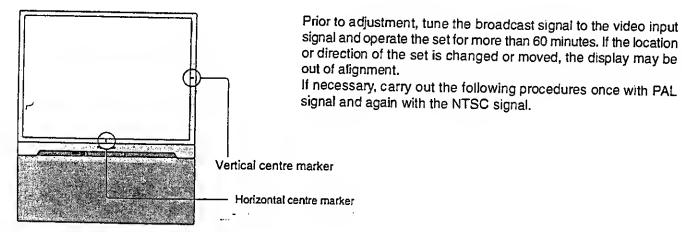
# On-Screen menu Display from Remote Control





# **Convergence Adjustment**

# **Convergence Adjustment mode**



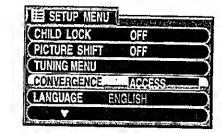
SET UP
Press to display the Setup Menu.

the desired the desired mental

Press to select the "CONVERGENCE".

Press to access to the "CONVERGENCE"

menu.



3

2

Press to select the "CONVERGENCE1" or the "CONVERGENCE2".

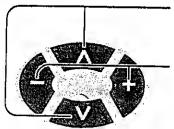
Press to access to the function.



Example: CONVERGENCE1 is selected.

# Convergence 1 Adjustment for RED, BLUE and GREEN

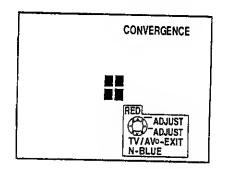
### RED



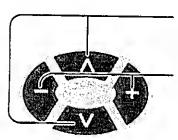
Press to align the horizontal red line with the horizontal blue line. (Becomes a white line)

Press to align the vertical red line with the vertical blue line. (Becomes a white line)

Press N button to adjust the blue mode. (Stores RED)



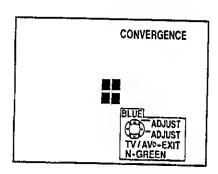
### BLUE



Press to align the horizontal blue line with the horizontal yellow line. (Becomes a white line)

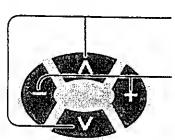
Press to align the vertical blue line with the vertical yellow line. (Becomes a white line)

Press N button to adjust the green mode. (Stores BLUE)



Only when cannot adjust with RED and BLUE, proceed to the following GREEN Adjustment.

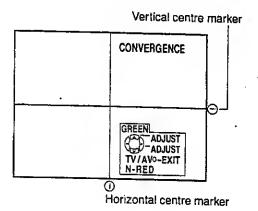
#### **GREEN**



Press to align the horizontal green line with the vertical centre maker.

Press to align the vertical green line with the horizontal centre maker.

Press N button to adjust the red mode. (Stores GREEN)

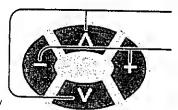


TV/AV

Press at any time to return to the normal viewing.

# Convergence2 Adjustment for RED and BLUE

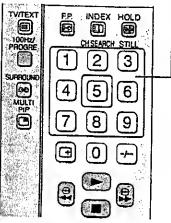
This function adjust the convergence of the side part of the screen.



Press to select the CONVERGENCE2.

Press to access to the function.

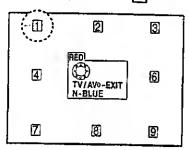


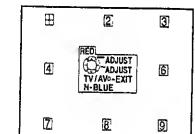


Remoto controi

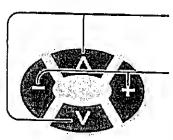
Press the Number button on the Remoe Control to select the position which you'd like to adjust.

(Example) Position 1 is selectd.





### RED

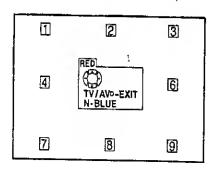


Press to align the horizontal red line with the horizontal blue line. (Becomes a white line)

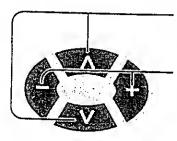
Press to align the vertical red line with the vertical blue line.

(Becomes a white line)

Press N button to adjust the blue mode. (Stores RED)



### BLUE

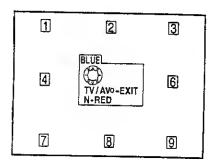


Press to align the horizontal blue line with the horizontal yellow line. (Becomes a white line)

Press to align the vertical blue line with the vertical yellow line.

(Becomes a white line)

Repeat above adjustment for each position.





Press to return to the normal viewing. (Stores BLUE)

#### Note:

If you wish to view a video with a different colour system (PAL / SECAM, NTSC), repeat the steps above while displaying a picture.

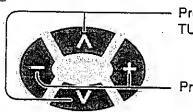
# **Tuning Channels**

### 1 Display the TUNING MENU

SET UP

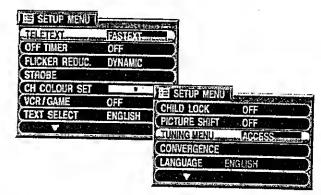
Press to display the SETUP MENU.

2



Press to select the TUNING MENU.

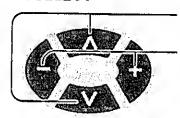
Press to display the TUNING MENU.



2

### 1 Select the "POSITION" or the "DIRECT"

CH SELECT



Press to select the "CH SELECT (Channel Select)" Mode.

Press to select the "POSITION" or the "DIRECT".

Setting range when the "POS." (Position) has been selected: Position 0-99
Setting range when the "DIRECT" has been selected: Channel 0-125

CHUSELEGIA POSITION.

SYS SELECT E.EUROPE

AUTO TUNE

(MANUAL TUNE

SOUND SYS 6.0MHz

COLOUR SYS AUTO

(FINE TUNE

SKIP OFF

The channel select indicator will change as follows.

DIRECT - POSITOIN

### 2 Regional System Selection

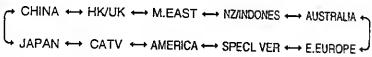
SYS SELECT (Before AUTO tuning and MANUAL tuning, set the "SYS SELECT" mode, as detailed below.)



Press to select the "SYS SELECT".

Press to select the appropriate system.

The system select indicator will change as follows.



CH SELECT	POSITION
SYS SELECT_	EEUROPE
AUTO TUNE	et garage
MANUAL TUNE	1 1
SOUND SYS	6. DMHz
COLOUR SYS	AUTO -
FINE TUNE	5
SKIP	OFF STATE

### System Select by Regional

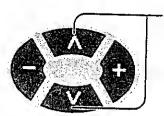
SYSTEM SELECT	Region
CHINA HK / UK ASIA/M.EAST NZ / INDONES AUSTRALIA E.EUROPE SPECL VER AMERICA CATV JAPAN	China Hong Kong, United Kingdom Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle Foot countries

# Sound System Selection (Different region use differing systems)

This function is used only in the TV mode when the sound is not clear or no sound is produced on a Programme Number, and is not applicable in AV mode .

1

2



Press to select the "SOUND SYS".

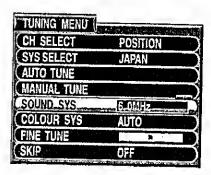
TUNING MENU	e grande harry they have re-should a b
CH SELECT	POSITION
SYS SELECT	JAPAN
AUTO TUNE	
MANUAL TUNE	
SOUND SYS	6.0MHz
COLOUR SYS	AUTO
FINE TUNE	スーと聞かとなる。
SKIP	OFF

Sound System Condition.

Press until the optimum sound is obtained.

The sound system will change as shown.

4.5MHz ← → 5.5MHz ↓ ↓ ↓ 6.5MHz ← → 6.0MHz



Note:

These are different sound broadcast transmission systems applicable to differing countries.

3



Press to exit from the "SOUND SYS".

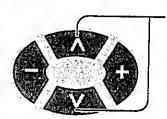
This returns the set to the normal viewing condition.

The selected Sound System is automatically memorised.

# Colour System Selection (Different region use differing systems)

If a clear picture with correct colours cannot be obtained when a Broadcast or AV signal is received.

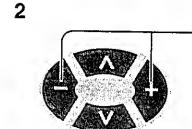
1



Press to select the "COLOUR SYS".

TUNING MENU (
CH SELECT POSITION
SYS SELECT JAPAN
AUTO TUNE
MANUAL TUNE
SOUND SYS 6.0MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

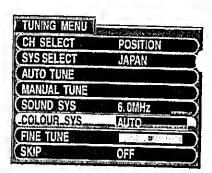
Colour System Condition.



Press to produce the optimum image.

The colour system will change as shown.

--> AUTO <--> PAL <--> SECAM <---> NTSC3.58 <---> NTSC4.43 <---



### Note:

PAL, SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to differing countries. NTSC 4.43 is a trick playback mode used in special VCR to playback NTSC recorded video tapes through PAL . .

3



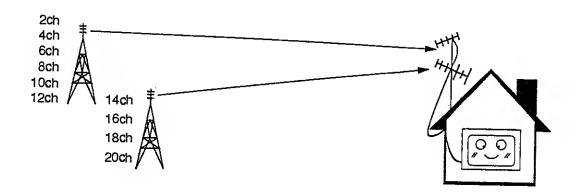
Press to exit from the "COLOUR SYS".

This returns the set to the normal viewing condition.

The selected Colour System is automatically memorised.

### **Channel Selection**

Select the most easily viewed channel selection method.



### **POSITION SELECT**

When the Channel Selection is on POS. (Position), and Auto Tune is performed, the unit memories the channels tuned in order from programme No.1.

Press the button (1) to view channel 2.

Press the button 2 to view channel 4.

Press the button [3] to view channel 6.

During position mode various reception channels can be viewed.

### Example

Programme Number	Channel Display	Received Channel
1	2	2
2	4	4
3	6	6
4	8	8
5	10	10
6	12	12
7	14	14
8	16	16
9	18	18
10	20	20

### DIRECT SELECT

When the Channel Selection is on DIRECT, and Auto Tune is performed, the unit memories the programme number which is the same as the channel tuned.

This method allows you to select the desired channel by pushing the channel display number directly on the remote control to select the station. The channel display numbers for the broadcast stations in each region are listed on page 25.

### Example

Programme Number	Channel Display	Received Channel
1	_	
2	2	2
3	_	
4	4	4
5	_	
6	6	6
7	_	_
8	8	8
9	_	_
10	10	10
:	:	
20	20	20
<u> </u>	<b>:</b>	:

# **Channel Allocation**

CATV (USA CATV) channel numbers as recommended by the joint EIA/NCTA Engineering committee and published as EIA INTERIM STANDARD No.6-CABLE TELEVISION CHANNEL IDENTIFICATION PLAN-MAY 1983.

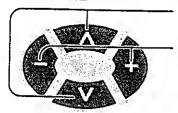
• The receiving channels are as follows;

SYS SELECT	CHINA	HK/UK	ASIA/M FAS	T NZ/INDONE	SAUSTRALIA	E ELIDADE	פסבמי עידי	NAMES :	1	
CH DISPLAY		<del>-1</del>		- [112111001121	RECEIVE	CHANNEL	SPECT VE	HAMERICA	CATV	JAPAN
0	-	-	-	_		-	<del>_</del>	1 _	T	<del></del>
2	1 2	[ <del>-</del>	2	1 2	0	1	1	2	1	1
3		-	[	(	2	2 (	2	2	2	2
5		_	/		3					1 5
2 3 4 5 6 7		_			0 1 2 3 4 5 S2		5	\	Ι (	
\$		_		1	S2		(			
11	12	_	11 12	11		11	11			1 7
11 12 13 14 15 16	12 13	_		-		12 -	11 12 13	13	}	12 13
15		_			S10	_		13 14		'3
16	\	_	_	_	S10 6 5	_				\
19 20		-	_	_	9 9A	_	_	[ \ \	Ι (	
21	-	21	21	21	9A					
22	)	(	(	(	10 11 12 511	21	21			
24			}	}	12 S11				7	>
28		}			( )					
5	<u> </u>						5			1 5
58	57 -			\ \	\$44 20 21	5	(	5	5	(
59	_	)	5	5	21					
62	-	62	62	62 63		62	62	62	62	20
21 22 23 24 5 28 57 58 59 62 63 69	_	62 63 \	62 63	63   {		62 63 <b>6</b> 9	62 63 5	63	62 63	62 C13
		69	69	69		69	69	62 63 5		
70 73 74 75 76 77 78 79	_	_	<del>-</del>	_		-	_	_	5	5
74	_	S'1	5'1 5'2 5'3	S'1		S'1	<u> </u>	-	ζ	
75 76	_	5'1 5'2 5'3	S'2 S'3	S'1 S'2 S'3	5 1	-	5'1 5'2 5'3	_		
77 78	-	-	-	-		-	S'3	_	7	
				_	(	-	<u>-</u>	-	>	
80 81	- 71	S1 S2	\$1 \$2 \$ \$10	S1 S2	7		S1 S2		$\rightarrow$	<del></del>
89	Z1 \ Z9	<b>S</b>	32 }	\$2 \$10	}	S1 S2 S10	S2	_		
90		S10 S11	S10 S11	S10 S11		S10	Sio_			
91 92	Z10 Z11 Z12 Z13	S12 S13	S11 S12 S13	S12 i	)	S11 S12 S13	_	_	5	\
93	Ž13	S14	S14 I	S13 S14 S15		S13 S14	- S14	_	(	. (
95	Z14 Z15	S15 S16	S15 S16	S15 S16	5	S15	S15	_		(
96 97	Z16	S17 S18	S17	S17	(	S16 S17	S16 S17	_	/	· /
91 92 93 94 95 96 97 98 99	Z17 Z18	S19 !	S18 S19	S18 S19		S18 S19	S18 S19	_	)	
100	Z19 Z20	S20 S21	S20 S21	S20		S20	S20	_	99	C49
5	Z37	(	341	S21	7 1	S21	S21	_	100	_
117 118	23/	( I	7		80	>	>	-	> 1	_ [
120	=	S41	) S41	) S41	=	)		-	<b>&gt;</b>	_
125	-	_	=	-	_	S41	S41	_	5	_
0							- [	-	125	_

# Automatic Tune (Channel Select and Regional System must already be set; Refer to pages 21)

This TV uses automatic tuning to determine whether or not a broadcast signal is being sent which it can receive, and automatically prepares so that the channel selection can respond to both the position select and direct select modes.

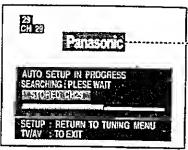
### 1 AUTO TUNE

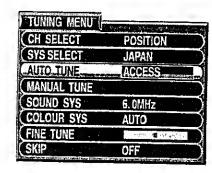


Press to select the "AUTO TUNE".

Press to access to the "AUTO TUNE".

Search Start.



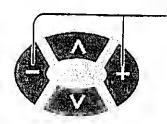


When found a station.

The best tuning position is automatically memorized.

### 2 SOUND SYS

After all stations are tuned, the on-screen display will automatically change from "AUTO TUNE" to "SOUND SYS" Position.



TV/AV

Press to improve the Sound quality, if the Sound is not clear or no sound is produced on a programme Number Position.



TUNING MENU

CH SELECT POSITION

SYS SELECT JAPAN

AUTO TUNE

MANUAL TUNE

SOUND SYS 6.0MHz

COLOUR SYS AUTO

FINE TUNE

SKIP OFF

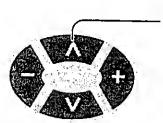
Press to exit from the Tuning Menu.

This returns the set to the normal viewing condition.

#### Note:

When sound volume is too small to confirm, tune it up by using the sound volume button on the remote control.





Press to check each station sequentially.



2 If necessary, repeat steps 1 to 2 for each Programme Number.

4



Press to exit from the Tuning Menu.

This returns the set to the normal viewing condition.

# \*Helpful Hint

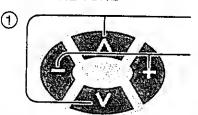
(1) If a clear picture with correct colours cannot be obtained when a Broadcast or AV signal is received, refer to the "Colour System Selection" operation on page 23.



After the Automatic tune is finished, press this button to confirm the tuning condition for each Programme Number. If some Programme Numbers are unused (no TV stations), it is possible to skip such Programme Numbers. Please refer to the Programme Number Skip operation on page 29.

# Manual Tune (Channel Select and Regional System must already be set; Refer to pages 21)

### 1 MANUAL TUNE



Press to select the MANUAL TUNE.

Press to access to the MANUAL TUNE.

TUNING MENU	如事是此時也多
CH SELECT	POSITION
	JAPAN
AUTO TUNE	
MANUAL TUNE	ACCESS
SOUND SYS	6.0MHz
COLOUR SYS	AUTO
FINE TUNE	<b>8</b> 195 €
SKIP	OFF



Press to select the desired Programme Number.

Press to select the higher or tower channel.

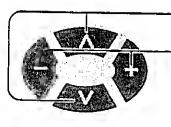
Search Start.



When found a station.

The best tuning position is automatically memorized.

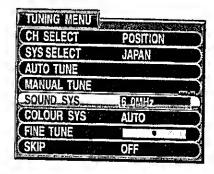
### 2 SOUND SYS



Press to confirm the sound condition of each Programme Number.

Press to improve the Sound quality, if the Sound is not clear or no sound is produced on a programme Number Position.





lote:

When sound volume is too small to confirm, tune it up by using the sound volume button on the remote control.

3



Press to exit from the Tuning Menu.

This returns the set to the normal viewing condition.

# \* Helpful Hint

(1) If a clear picture with correct colours cannot be obtained when a Broadcast or AV signal is received, refer to the
 "Colour System Selection" operation on page 23.



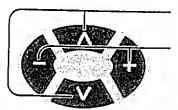
After the Manual tune is finished, press this button to confirm the tuning condition for each Programme Number. If some Programme Numbers are unused (no TV stations), it is possible to skip such Programme Numbers. Please refer to the Programme Number Skip operation on page 29.

(3) When using a VCR without video and audio input/output terminals, it is convenient to connect the aerial cable as indicated in the instruction manual of VCR and to set the designated channel to programme No. "0". In that case, perform manual tune after setting the colour system and sound system in advance. Further, in multi-system VCR, it is more convenient to set the designated channel to several programme Numbers.

# **Fine Tuning**

1 FINE TUNE

Under normal reception conditions this function is not required or necessary. However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.



Press to select the FINE TUNE.

Press until the clear picture is received.

TUNING MENU	· · · · · · · · · · · · · · · · · · ·
CH SELECT	POSITION
SYS SELECT	JAPAN
AUTO TUNE	
MANUAL TUNE	× ×
SOUND SYS	6. OMHz
COLOUR SYS	AUTO
EINE TUNE	
SKIP	OFF

2



Press to store the FINE TUNE.

This stores the FINE TUNE to the selected Programme Number.

3



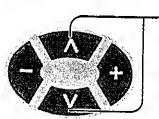
Press to exit from the FINE TUNE.

This returns the set to the normal viewing condition.

# How to Cancel the Fine Tuning

Cancelling previously adjusted (manually) fine tuning, means re-activating the AFT (Automatic Fine Tuning). Reactivating the Automatic Fine Tuning means albaming the set to automatically tune to the optimum tuning position, for that programme Number.

1



Select the Programme Number which you'd like to return to Automatic Fine Tuning (cancel the manual fine tuning).

2

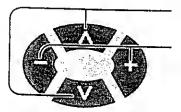


Press to display the SETUP MENU.

Ú

Proceed to the TUNING MENU (refer to page 21).

3



Press to select the MANUAL TUNE.

Press to access to MANUAL TUNE.
Press briefly to tune the best position.

TUNING MENU

CH SELECT POSITION

SYS SELECT JAPAN

(AUTO TUNE

MANUAL TUNE ACCESS

SOUND SYS 6.0MHz

COLOUR SYS AUTO

FINE TUNE

SKIP OFF

4



Press to store the AFT.

This stores the re-activated AFT.

5



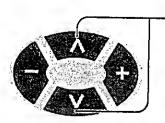
Press to exit from the MANUAL TUNE.

This returns the set to the normal viewing condition.

# **Programme Number Skip**

It is possible to skip Programme Number on which no TV stations are tuned appearing on the screen. The function is only effective when selecting Programme Numbers by pressing the Programme Number Up or Down button either on the TV set or on the Remote control.

1



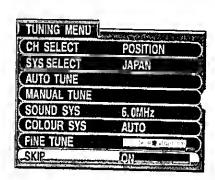
Press to select the Programme Number you'd like to skip.

2



Press to select the SKIP.

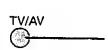
Press to change the mode to "ON.".



-3



Press to store the Skip function.



Press to exit from the SKIP.

This returns the set to the normal viewing condition.

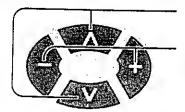
4



Repeat Step1 to 3 for each Programme Number for which the Skip function is desired.

# How to Cancel the Skip Function

1



Press to select the SKIP.

Press to change the mode to "OFF.".

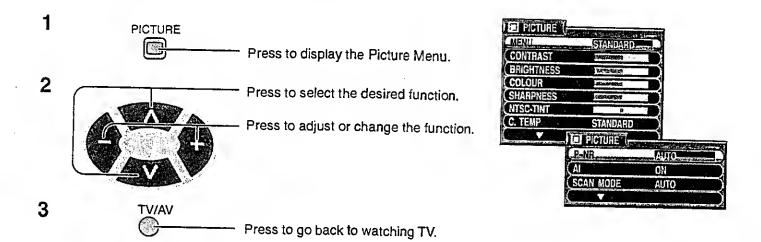
CH SELECT POSITION
SYS SELECT JAPAN
AUTO TUNE
MANUAL TUNE
SOUND SYS 6.0MHz
COLOUR SYS AUTO
(FINE TUNE

2



Press to store the Skip function.

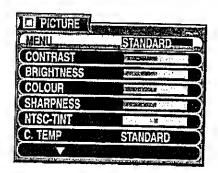
# **Picture Adjustment**

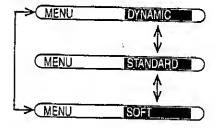


#### MENU

You can change the level of each Function (CONTRAST, BRIGHTNESS, COLOUR, SHARPNESS, NTSC-TINT) for each Picture Menu. Picture menu mode will be memorized for each TV, AV1, AV2, AV3 and AV4 mode.

Picture Menu	Function
DYNAMIC	For viewing in brighter environments. This menu selects a higher than normal levels of Brightness and Contrast.
STANDARD	For viewing in normal (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.
SOFT	For viewing in a dark room. This menu selects reduced levels of Brightness and Contrast.

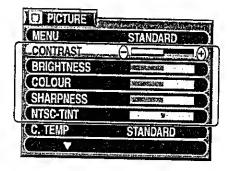




### CONTRAST, BRIGHTNESS, COLOUR, SHARPNESS, NTSC-TINT

Increase or decrease the levels of CONTRAST, BRIGHTNESS, COLOUR and SHARPNESS options according to your personal preference. With an NTSC-TINT signal source connected to the TV, the picture hue can be adjusted to suit your taste.

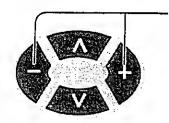
Item	Effect	Function
CONTRAST	Less More	Adjust for contrast.
BRIGHTNESS	Oarker Brighter	Adjusts for easier viewing of dark pictures such as night scenes and hair.
COLOUR	Less More	Adjusts slightly to a lighter colour.
SHARPNESS	Less More	Displays a sharp image.
NTSC-TINT	Reddish Greenish	Adjust for proper skin colour.



#### Notes:

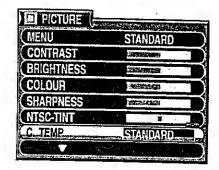
- When set to Multi PIP mode, the main and sub pictures are both adjusted simultaneously.
- When the TV is receiving NTSC signals, NTSC-TINT is displayed and level adjustment would be possible.
- Only CONTRAST will be displayed during TEXT mode.

C. TEMP (Colour Temperature) Set the overall colour tone of the picture.



Press to switch between modes

 $\rightarrow$  STANDARD  $\leftarrow$  WARM  $\leftarrow$  COOL  $\leftarrow$ 



P-NR (Picture Noise Reduction)

Automatically reduces undesired picture noise.

Press to switch between modes

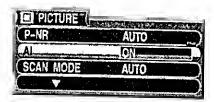
TC- 47P500 . : Switching is also possible using on the remote control.

P-NR AUTO
AI ON
SCAN MODE AUTO

ΑI

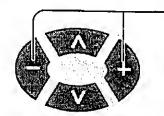
Automatically analyses the incoming picture and processes it to give improved contrast and optimum depth of field.

TC- 47P500 : Switching is also possible using on the remote control.



**SCAN MODE** 

Choose the screen refresh method:



Press to switch between modes

-> AUTO ←>100 Hz MODE ←> PROGRESSIVE ←

P_NR	TO STATE OF THE PARTY OF THE PA	ALPTO	Marie Land
		AUTO	
AL		ON	
SCAN_MOD	)E	AUTO	

MODE	Function
AUTO	The TV software will select the best mode for the signal being viewed.
	100Hz will give a steady picture for most signal transmission.
PROGRESSIVE	Recommended when receiving NTSC signals.

Switching is also possible using on the remote control.

#### Note:

We recommend that you set Scan mode to Progressive when viewing a PAL 60 or NTSC transmission. When viewing a PAL transmission (other than PAL 60) with Scan mode set to Progressive, the screen will flicker, this is not a fault.

# \* Helpful Hint (Normalization)

By pressing the Normal "N" Button on the Remote Control while the Picture menu is displayed, the selected menu will be changed to the Normal Mode.

Normalization will not occur if the menu is not displayed when the "N" Button is pressed.

The Normal mode is the factory preset condition. Returning to this original condition is called "Normalization".

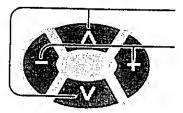
# Sound Adjustment

1

SOUND

Press to display the Sound Menu.

2



Press to select the desired function.

Press to adjust or change the function.

10CUI	<b>为社会总统和保险证明的主持</b>
MENU	OYNAMIC
VOLUME	STOREGIST OF THE STORE
BASS	PROGRAMMENTS I
TREBLE	
BALANCE	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
HEADPHONE VOL.	ALTERNATION
SUB HEADPHONE	Parties
SURROUND	OFF

3



Press to go back to watching TV.

Note:

Some features are only available with the Surround feature switched off. Press

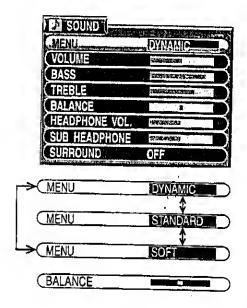


to switch between On and Off.

### MENU

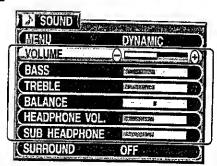
You can change the level of each Function (VOLUME, BASS, TREBLE, BALANCE, HEADPHONE VOL, SUB HEADPHONE) for each Sound Menu. Sound menu mode will be memorized for each TV, AV1, AV2, AV3 and AV4 mode.

Sound Menu	Function		
DYNAMIC	Amplifies the Low frequencies and outputs optimum sound. For music programmes for example.		
STANDARD	For Normal use.		
SOFT	Human voices (middle pitch sounds) will sound more clear.		



### VOLUME, BASS, TREBLE, BALANCE, HEADPHONE VOL., SUB HEADPHONE

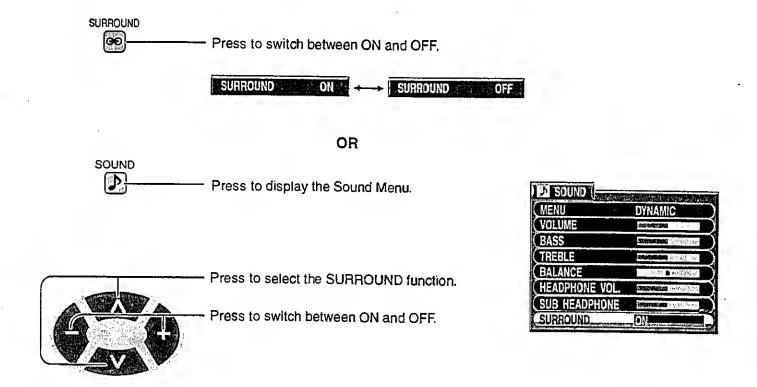
Item	Effect	Function
VOLUME	Less Mora	Adjusts output volume.
BASS	Less More	Adjusts low sounds.
TREBLE	Lass More	Adjusts high sounds.
BALANCE	Lett SP Right SP	Adjust left and right volumes.
HEADPHONE VOL.	Less Mare	Adjust Headphone volume.
SUB HEADPHONE	Less More	Adjust Sub Headphone volume.



### Notes:

- When set to Multi PIP mode, the main and sub sound are both adjusted simultaneously.
- When using one of the double window features, note that the headphones will relay the soundtrack for the programme in the main window, not the smaller window.

### SURROUND MENU



The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround effect can be obtained without the use of external surround speakers.

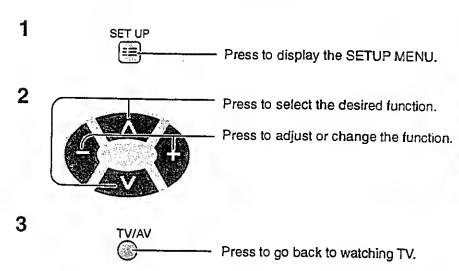
# \*\*Helpful Hint (MNormalization)

By pressing the Normal "N" Button on the Remote Control while the Sound menu is displayed, the selected menu will be changed to the Normal Mode.

Normalization will not occur if the menu is not displayed when the "N" Button is pressed.

The Normal mode is the factory preset condition. Returning to this original condition is called "Normalization".

# **Setup Adjustment**

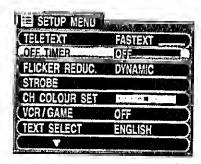




### **OFF TIMER**

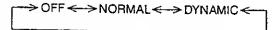
Switches the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

$$\begin{array}{c} > OFF \longleftrightarrow 15 \longleftrightarrow 30 \longleftrightarrow 45 \longleftrightarrow \\ > 90 \longleftrightarrow 75 \longleftrightarrow 60 \longleftrightarrow \\ \end{array}$$



### **FLICKER REDUCTION**

Lets you control any picture movement. Set to Dynamic to activate motion compensation, to smooth the image and get rid of picture movement. Set to Normal to correct minor picture movement, or if slight ghosting of figures occurs when using the Dynamic setting. Set to Off to have no flicker reduction at all, occasional broadcasts may benefit from using this setting.



# TELETEXT FASTEXT OFF TIMER OFF STROBE CH COLOUR SET VCR/GAME OFF TEXT SELECT ENGLISH

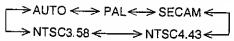
#### Note:

In NTSC when set the SCAN MODE to 100Hz MODE, this function is not available.

### **COLOUR SYSTEM**

During AV mode, COLOUR SYSTEM is displayed.

If a clear picture with current colours cannot be obtained when a Broadcast or AV signal is received. The colour system will change as shown.

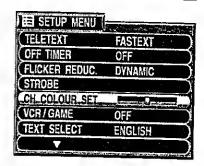


PAL, SECAM and NTSC 3.58 are different colour signal broadcast transmission systems applicable to differing countries. NTSC 4.43 is a trick playback mode used in special VCR to playback NTSC recorded video tapes through PAL television equipment.

(व्यक्तक	111111	FASTE	
OFF TIM	ER.	OFF	• • • •
(FLICKER		DYNAN	C
COLOUR	SYS	AUTO	
STROBE	St. 18 14 1	Jacob A	- 11
CH COL			ž.
VCR/GA	ME	OFF	

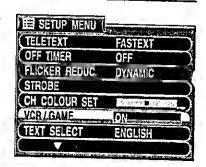
# **CH COLOUR SET**

Colour density varying between broadcast channels can be adjusted to three levels for each reception channel.



### VCR/GAME

Reproduction of irregular signals, such as certain TV games and rental video tapes, may be improved.



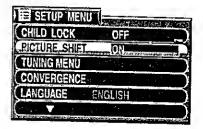
### **CHILD LOCK**

If the Child-Lock function is set ON, picture and sound of the TV/AV mode being viewed will disappear and a Black screen will appear.



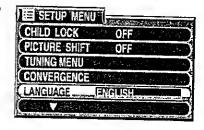
### PICTURE SHIFT

For use as a screen saver, this function changes the entire picture position (shift) approximately 2 mm every 15 minutes.



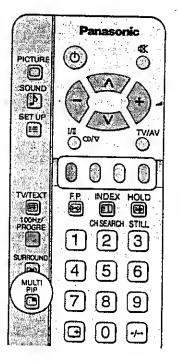
### LANGUAGE

When you first install the TV, the On Screen Display language is set according to your choice of region. LANGUAGE lets you change the language used for On Screen Displays.



# Multi Screen

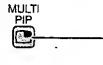
### Multi PIP



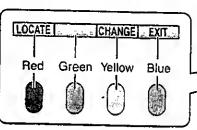
Press to select the current programme, the picture in picture feature, or the picture and picture feature.

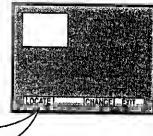
The on screen selector keys for the features (corresponding to the four coloured buttons on the remote control) appear and disappear after a few seconds. If you'd like to select an operation when the keys are not shown, press once more and the keys will reappear.

### Picture in Pcture (PIP)



Press to view two pictures (sub picture in main picture) at the same tme.





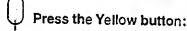


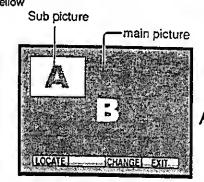
Press the Red button:

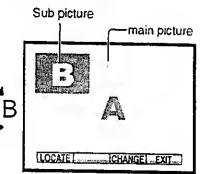
Sub picture

main picture

Each time the location of the sub picture is changed.







Each time the main picture and the sub picture are swapped.



Press the Blue button to exit from the PIP mode.

### Picture and Picture



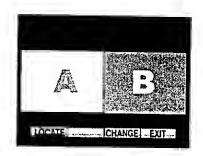
Press twice to view two pictures (picture and picture) at the same time.

Press the Yellow button:

Each time the picture in the left and the picture in the right are swapped.



Press the Blue button to exit from the PIP mode.



### į Channel search i. INDEX Press to show freeze-frames of the programmes being broadcast on all of the stored CH SEARCH channels. These images are displayed in series clockwise around the edge of the screen, starting from the top left. The current programme is displayed in the centre of the screen, still playing. HOLD 2 Press to pause the search. 5 INDEX 6 Press to exit from the feature. CH SEARCH SELECT OK. Channel search Green Yellow Press to watch the current programme (displayed centre screen), exiting the feature. Press to watch the selected channel, exiting the feature. Press to select each channel's freeze-frame in turn. Picture and text (No indication for · TC-47P500) TELETEXT TELETEXT TV/TEXT Press to select watching the current programme, the teletext or the picture and text feature. Note: **TELETEXT** mode Picture and text mode The remote control affects the teletext page; so select watching the current programme before making any changes to the programme. Still HOLD Press to freeze the picture, press again to return to watching the current programme. STILL Strobe Lets you take a series of freeze-frame photos of a piece of action (for example: **EE** SETUP MENU the finish of a race). TELETEXT **FASTEXT** (Access Strobe via the Setup menu, see page 34). OFF TIMER OFF Takes a series of up to twelve freeze-frame images FLICKER REDUC, DYNAMIC (one second delay between each image being taken) STROBE ACCESS CH COLOUR SET from the current programme watched. VCR / GAME TEXT SELECT HOLD ENGLISH Press to pause (freeze) the Strobe, press again to continue taking the freeze-frames.

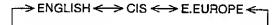
Press to exit from the Strobe feature and return to watching the current programme.

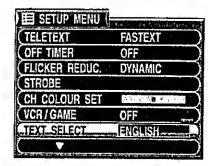
# TELE TEXT (No indication for TC-47P500

Teletext features may vary depending on the Broadcasting Companies and are only available when the channel selected is transmitting Teletext.

TEXT SELECT (No indication for TC-47P500

Select character set, so that all characters needed are available for text on teletext pages (eg: cyrillic characters, etc).





### TV / Teletext mode

TV/TEXT

Press to select the current programme, the teletext and the picture or the teletext feature 🚛

**PICTURE** 

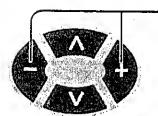


Press to display the contrast function with a cyan bar.

SOUND



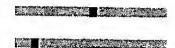
Press to display the volume function with a green bar.



Press to alter the setting as required.

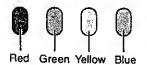
CONTRAST

VOLUME





Press to display special function options at the bottom of the screen.



Press to select the desired function.

### LIST / FASTEXT mode

Choose 2 modes.

LIST ←→ FASTEXT

LIST mode:

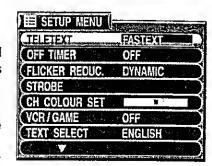
Four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers

can be altered and stored in the TV's memory.

FASTEXT mode:

Four differently coloured subjects are situated at the bottom of the display. To access more information. press the appropriately coloured button. This mode enables fast access to information on the subjects

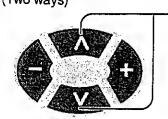
shown.



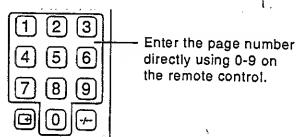
#### Note:

Characters will be illegible unless you select the Text Language which matches the text being received. Select the correct LANGUAGE (Refer to page 35).

Page Selection (Two ways)



Press to increase or decrease the page number by one.



### Full / Bottom



Press to display special functions.

Press the Green button again to expand the BOTTOM half.

Press again to return to normal (FULL) size.

#### Reveal



Press to reveal hidden words e.g. quiz page answers. Press again to hide.

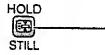
### **List Store**

In LIST mode the four page numbers can be altered (programme positions 1 - 25 only). Press one of the four coloured buttons and enter the new page number.

STR

Press and hold, the page numbers will change to white indication and the page is stored.

#### Hold

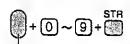


Press to hold the Teletext page when viewing multi-page information.

Press again to return to automatic page update.

### Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. (programme positions 1 - 25 in List mode only).



Press the Blue button, select the page number, then press and hold The page number is now stored.



Press to recall the stored page number.

	Teletext page	News Flash	Update
	Press to display special functions to view the TV picture whilst searching for a Teletext	Press to view the TV picture When a news flash page has been selected.	Press to see the update of information on certain pages.
SET UP  Yellow	P100 When found a page.	TV picture viewing	P100
Yellow	Press to view the page.	Press to display the News Flash.	When an update is received.  Press to view the page.
TV/AV	Return to normal TV operation.	•	

#### Index



Press to return to the main index page.

Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.

### **Sub Coded Page Access**

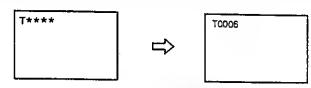
When Teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found.



Select the required page number using buttons 0 - 9.

If the top of the page indicates that sub pages are being transmitted yet the page does not change, then the number at the top of the page is there to indicate that the broadcaster has updated the page's contents, there are no sub pages.





Enter desired sub-page number before the  $T^{***}$  disappears. To select page 6 enter 0, 0, 0 and 6.

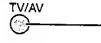


Viewing a normal TV programme. ← →

Viewing the Teletext page.



Select a new page number.



Press to return to normal TV operation.

# **Advanced Remoto Control Operation**

# **Stereo Bilingnal Sound Selection**

When you receive the stereo/bilingual sound system, sound output modes can be selected by pressing the stereo/bilingual sound selection button.

Audio Signal	STEREO	MAINI	SUBI	MONO
Mode Indicator	0	I	П	$\nabla$

NICAM .....used in Australia, Malaysia, Thailand, Indonesia etc.

Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO I (MAIN I)	NICAM STEREO	NICAM DUAL MONO (MAIN I / SUB II)
Mode Indicator	No Indicator → ▽	1   \( \neq \)	$\odot \rightarrow \nabla$	I — II

.2(German) ......used in New Zealand, Malaysia, Singapore, China.

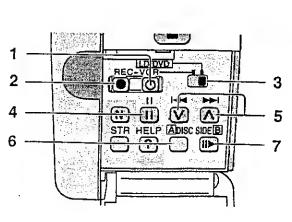
Type of broadcast	Regular broadcast (Standard Audio)		AL or DU/	AL MONO:	STEREO
Mode Indicator	No Indicator → ▽	1		п	∞ ▽

### Notes:

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept Intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the "MONO" position, using the stereo/bilingual sound selection button.
- "DUAL", also known as "DUAL MONO" or as "BILINGUAL" is not currently transmitted in some countries.

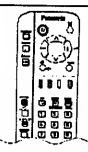
### VCR / LD / DVD Control

he Remote Control is capable of operating some functions of selected Panasonic VCRs, LD and DVD (Digital Versatile Disc) equipment. Some VCR, LD and DVD equipment have different functions. So to ensure compatibility please refer to the equipment's instruction book or consult your dealer for details.



	Button	Func	tion
	1	VCR	LD/DVD
1	<b>©</b>	Power Switch	
2	•	REC (Record)	
3		VCR/LD, DVD Select	button
4	;; []	Pause/Still	
5	₹    }	Programme Number Up and Down	Programme Skip
6	Aldisc		DISC SIDE A Selection
7	SIDE B	Still Advance	DISC SIDE B Selection

# **Aspect Controls**



Press the ASPECT button to select the different Aspect options. The options available are AUTO, 4:3, ZOOM, S-ZOOM, 16:9, 14:9 and JUST.

Mode	Picture	Description
AUTO		The AUTO position can be set to 4:3 or to JUST. When a wide screen signal is detected at the Video terminal the TV will select the 16:9 aspect ratio.
	16:9 Signal 4:3 Signal	
4:3		This option will display a standard 4:3 picture without any stretching or compression. There will be vertical black lines down either side of the picture
ZOOM	LL PREJULANCE LY PROJUY PROMI	This option allows you to magnify part of the picture. The coloured buttons let you change the position of the magnified area.  Red HPOS - Move picture Left Green HPOS + Move picture Right Yellow VPOS - Move picture Down Blue VPOS + Move picture Up
S - ZOOM	Lu produ produ v. produ v. produ	S-ZOOM displays part of the picture at greater magnification that the ZOOM mode does. The coloured buttons let you change the position of the magnified area as shown for ZOOM
16 : g	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	The 16:9 option will display the picture at its maximum size. Signals in the 4:3 format will be stretched to fit the picture.
14 : g	o o	The 14:9 option will display a 4:3 signal in simulated wide screen. The picture is slightly stretched. It is also slightly cropped top and bottom.
JUST	0 0	JUST gives you a "best fit" option when showing 4:3 on wide screen. The centre of the picture is not affected but there is some stretching at the edges.

# **Troubleshooting**

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Sym	ptoms	
Picture	Sound	Checks
Snowy Picture	Noisy Sound	Aerial Location, direction or Connections
Multiple Image	Normal Sound	Aerial Location, direction or Connections
Interference	Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent Lamps
Normal Picture	No Sound	Volume (Refer to page 15) (Check whether the mute function has been activated on the Remote Control.)
? No Picture	No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness/Volume setting (Check by pressing the Power Switch or Stand-by Button on the Remote Control.)
No Colour	Normal Sound	Colour Control (Refer to page 30, 31) Colour System (Refer to page 34)
Scrambled	Normal or Weak Sound	Retune Channels (Refer to page 21)
Coloured Patches	Normal Sound	Magnetic interference from unshielded equipment; TV set moved while "ON". Turn the TV set off for 30 minutes, using the "Power" Switch on the TV set.
No Colour	Noisy Sound	Sound Menu (Refer to page 32) Picture Menu (Refer to page 30)

# **Specifications**

	•	-47P500H -47P500H				
Power Source	AC 220	-240 V, 50/60 Hz				
Power Consumption	218 w	Stand-by condit	ion 3.0 W			
Receiving System						
21 Systems		Function			21 Systems	Function
1 PAL B. G. H 2 PAL I 3 PAL D. K 4 SECAM B. G 5 SECAM D. K 6 SECAM K1 7 NTSC M (NTSC 3.5	8/4.5 MHz)	Reception of broads transmis-sions a Playback from Vi Gassette Ta Recorders.	ind 17	PAL 6 PAL 6 SECA SECA SECA	50 Hz/5.5 MHz 50 Hz/8.0 MHz 50 Hz/8.5 MHz 1M 60 Hz/6.5 MHz 1M 60 Hz/6.0 MHz 1M 60 Hz/6.0 MHz 50 Hz/4.5 MHz	Playback from Special Disc Players and Special VCR's
8 NTSC 4.43/5.5 MHz 9 NTSC 4.43/6.0 MHz 10 NTSC 4.43/6.5 MHz 11 NTSC 3.58/5.5 MHz 12 NTSC 3.58/6.0 MHz 13 NTSC 3.58/6.5 MHz 14 SECAM I		Playback from Speci VCR's	aí			
Receiving Channels	0-12 (P/ 1-9 (PAI 1-12 (P/ 1-12 (N)	ND NUSECAM B, K1) NL B AUST.)	UHF BAI 21-69 (P. K, K1) 28-69 (P. 13-62 (N 14-69 (N	ALG, I ALBAU ALD, K) ISC M	) Japan)	CATV \$1-\$20 (OSCAR) 1-125 (U.S.A CATV) C13-C49 (JAPAN) \$21-\$41 (HYPER) Z1-Z37 (CHINA) 5A, 9A (AUST.)
Receiving Stereo System	NICAM	, NICAM B/G, NICA	MD, A2 (G	erman)		
Tuning System	Frequen	cy synthesizer Auto	Search Tuni POSITION DIRECT	*:	100 Position 125 Position	
Audio Output	24 W [ 2-	way, 4-speakers ; 1	2 W + 12 W	](10 %	% THD )	
Headphones	3.5 mm l	Plug			<del></del>	
Aeriai impedance	75Ω Ur	balanced coaxial				
/ideo/Audio/ Component Terminals	AV 1, 2,		S-Video In OVD (Y/Ps/F Video In Audio In Video Out	'A) <sub>.</sub>	C:0. 1 V; App	Vp-p, 75 Ω 3 Vp-p, 75 Ω p-p, 75 Ω rox. 0,4 V 47 ΚΩ p-p, 75 Ω
	AV2.IN (F AV3 IN (F	Reer): S-Video, Vid Rear): Video or Y/P Front): S-Video, Vid Rear): Video or Y/P	e/Pa, Audio I eo, Audio L/	JR tem	nale ninals	
ransmitter	R6 (AA) E	Sattery × 2			·	
	<del></del>	7P500H , TX-47P	500H			
				-		
imensions ( w x H x D )	1095 mm	1 × 540 mm × 1	190 mm	ł		

Note: Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

	•
•	
Customer's Record	
Customer's Record The model number and serial num	nber of this product can be found on its cabinet. You shou
The model number and serial num note this serial number in the space	ce provided below and retain this book plus your purcha
The model number and serial num note this serial number in the space	ce provided below and retain this book plus your purcha your purchase to aid in identification in the event of theft
The model number and serial num note this serial number in the space receipt as a permanent record of y	nber of this product can be found on its cabinet. You shouse provided below and retain this book plus your purcharyour purchase to aid in identification in the event of theft poses.  Serial Number